

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1.-68. (Canceled)

69. (Currently Amended) An individual single-walled carbon nanotube synthesized on a substrate, wherein the nanotube has a length of at least 1 mm from one end to an opposite end of the individual nanotube, and
wherein the nanotube is substantially isolated from other nanotubes.

70. (Previously Presented) The nanotube of claim 69 wherein the nanotube has a length greater than 2000 microns.

71. (Previously presented) The nanotube of claim 69 wherein the nanotube has a length greater than 1 cm.

72. (Cancelled)

73. (Previously presented) The nanotube of claim 69 wherein the nanotube is made by a process comprising:

providing a catalyst on a substrate; and
directing a feeding gas in a predetermined direction over the catalyst such that the nanotube grows from the catalyst in the predetermined direction.

74. (Currently Amended) The nanotube of claim 69 wherein the nanotube ~~comprises~~ is one of a plurality of substantially aligned carbon nanotubes, each having a length of at least ~~2000 microns~~ 1 mm.

75 - 76. (Canceled)

77. (Previously presented) The nanotube of claim 69 wherein the nanotube comprises multiple metal electrodes on the nanotube.

78. (Previously presented) The nanotube of claim 69 further comprising multiple devices along the length of the nanotube.

79. (Currently Amended) A system comprising an individual single-walled carbon nanotube and multiple transistor or diode devices along the length of the nanotube, wherein the nanotube has a length of at least 1 mm from one end to an opposite end of the individual nanotube, and wherein the nanotube is substantially isolated from other nanotubes.

80. (Previously presented) The system of claim 79 wherein the nanotube has a length of at least 2000 microns.

81. (Cancelled)

82. (Previously presented) The system of claim 79 wherein the nanotube has a length greater than 1 cm.

83-88. (Cancelled)

89. (Previously Presented) The system of claim 79 further comprising a substrate which supports at least one end of the nanotube.

90. (Previously Presented) The system of claim 79 further comprising a metal catalyst nanoparticle in contact with at least one end of the nanotube.

91. (Currently Amended) The ~~system~~ nanotube of claim 69 wherein the substrate supports at least one end of the nanotube.

92. (Currently Amended) The ~~system~~ nanotube of claim 69 further comprising a metal catalyst nanoparticle in contact with at least one end of the nanotube.

- 93. (New) The nanotube of claim 69 wherein the nanotube is relatively straight.
- 94. (New) The system of claim 79 wherein the nanotube is relatively straight.
- 95. (New) The nanotube of claim 69 wherein the nanotube has the length of 1 mm to 1 cm from one end to an opposite end of the individual nanotube.
- 96. (New) The system of claim 79 wherein the nanotube has the length of 1 mm to 1 cm from one end to an opposite end of the individual nanotube.